SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR
(AUTONOMOUS)

7thBoS Meeting of Mechanical Engineering (MECH)

Date: 12/07/2021

The 7th meeting of Board of Studies (BoS) in Mechanical Engineering is held on 12th July, 2021 (Monday) at 10.00 AM online through ZOOM.

As per the UGC (University Grant Commission) guidelines, the Choice Based Credit System (CBCS) and electives have been implemented in the curriculum.

Dr. S. Sunil Kumar Reddy, Chairman - BoS chaired the meeting and welcomed all the members to the seventh BoS meeting and discussed the following agenda:

1. Approval of course structure and syllabi for II year B.Tech. under R20 Regulation.
2. Approval of course structure and syllabi for III year B.Tech. under R19 Regulation.
3. Approval of course structure and syllabi for IV year B.Tech. under R18 Regulation.
4. Approval of examiners and paper setters for II, III and IV B.Tech. that comes under R20, R19 & R18 respectively.
5. Any other item with the permission of Chair.

After a brief introduction of the agenda items listed above, each agenda item were taken up for discussion and the following resolutions were passed.

Minutes:

Agenda: 1

Approval of course structure and syllabi for II year B.Tech. under R20 Regulation in MECH w.e.f., 2021-2022.

Resolution: 1

After detailed discussion, the BoS resolved to approve the course structure and syllabi for II year B.Tech. under R20 Regulation (given in **Annexure –I** respectively) applicable from the A.Y.2021-2022.

A. Course & Syllabus Comparison

With reference to the R19 regulations, the new regulation (R20) syllabus for II year has the following modifications which, are given in the below table.

II B.Tech

S.No	R19 Regulation	R20 Regulation	Percentage of course content changed
1	Numerical Methods, Probability & Statistics	Numerical Methods, Probability & Statistics	0
2	Fluid Mechanics & Hydraulics Machinery	Fluid Mechanics & Hydraulic Machinery	0
3	Strength of Materials	Mechanics of Solids	0
4	Kinematics of Machinery	Kinematics of Machinery	
5	Thermal Engineering	Thermal Engineering	0
6	Basic Electrical and Electronics Engineering Lab	Fluid Mechanics & Hydraulic Machinery Lab	0
7	Strength of Materials Lab	Strength of Materials Lab	0
8	Thermal Engineering- Lab	Thermal Engineering Lab	50
9	Automobile Engineering Lab- I	Automobile Engineering Lab- I	0
10	Environmental Science	Environmental Science	0
11		Entrepreneurship Development	100
12	CAD/CAM	CAD/CAM	5

13	Manufacturing Processes	Manufacturing Processes	20
14	Materials Engineering	Materials Science	10
15	Theory of Machines	Theory of Machines	0
16	Computer Aided Machine Drawing Lab	Computer Aided Machine Drawing lab	25
17	Manufacturing Processes Lab	Manufacturing Processes Lab	0
18		Materials Science Lab	100
19	Computer Aided Modeling & Analysis Lab	Computer Aided Modelling Lab- I	100

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME B.Tech II Year	**19**	**21.57**

B. Course Relevance

The courses that comes under the category of Employability, Skill or Entrepreneurship development are shown in the table below.

II B.Tech

Sno	Course Title	Course Code	Relevance
1	Fluid Mechanics & Hydraulic Machinery	20CE0160	Employability
2	Mechanics of Solids	20CE0164	Employability
3	Kinematics of Machinery	20ME0304	Employability
4	Thermal Engineering	20ME0305	Employability
5	Fluid Mechanics & Hydraulic Machinery Lab	20CE0112	Skill Development
6	Strength of Materials Lab	20CE0106	Skill Development
7	Thermal Engineering Lab	20ME0306	Skill Development
8	Automobile Engineering Lab- I	20ME0365	Skill Development
9	Entrepreneurship Development	20HS0815	Entrepreneurship
10	CAD/CAM	20ME0307	Employability
11	Manufacturing Processes	20ME0308	Employability
12	Materials Science	20ME0309	Employability
13	Theory of Machines	20ME0310	Employability
14	Computer Aided Machine Drawing lab	20ME0311	Skill Development
15	Manufacturing Processes Lab	20ME0312	Skill Development
16	Materials Science Lab	20ME0313	Skill Development
17	Computer Aided Modelling Lab- I	20ME0366	Skill Development

Modifications described above are carried out to the curriculum after discussions in the BoS by considering the feedback/suggestions from the stakeholders viz. students, alumni, faculty and employers.

Agenda: 2

Approval of course structure and syllabi for III year B.Tech. under R19 Regulation in MECH w.e.f., 2021-2022.

Resolution:2

After detailed discussion, the BoS resolved to approve the course structure for III year B.Tech. under R19 Regulation (given in **Annexure –II** respectively) applicable from the A.Y.2021- 2022.

A. Course & Syllabus Comparison

With reference to the R18 regulations, the new regulation (R19) syllabus for III year has the following modifications which, are given in the below table.

III B.Tech

S.No	R18 Regulation	R19 Regulation	Percentage of course content changed
1	Design of Machine Elements-I	Design of Machine Elements-I	20
2	Machine Tools	Machine Tools	0
3	CAD/CAM	CAD/CAM	5
4	Thermal Engineering	Thermal Engineering	20
5	Elements of Road Traffic Safety	Elements of Road Traffic Safety	0
6	Solar Photovoltaic Systems	Solar Photovoltaic Systems	0
7	Introduction to IOT	Introduction to IOT	0
8	Software Development & Testing	Software Development & Testing	0
9		Business Ethics	100
10	Machine Tools lab	Machine Tools lab	0
11	Thermal Engineering- Lab	Thermal Engineering- Lab	0
12	Computer Aided Analysis Lab	Computer Aided Modeling & Analysis Lab	30
13	English for Corporate Communication Skills Lab	English for Corporate Communications Skills Lab	0

14	Design of Machine Elements-II	Design of Machine Elements-II	0
15	Heat & Mass Transfer	Heat & Mass Transfer	0
16	Metrology & Measurements	Metrology & Measurements	10
17	Non-Conventional Energy Resources	Non-Conventional Energy Resources	12
18	Project Planning and Control	Project Planning and Control	0
19		Neural Networks and Fuzzy Logic	100
20	MATLAB Programming	MATLAB Programming	0
21		Introduction to Cyber Security	100
22		Strategic Management	100
23	Heat Transfer Lab	Heat Transfer Lab	0
24	Metrology and Measurements Lab	Metrology and Measurements Lab	0
25	Robot Programming Lab	Robot Programming Lab	0
26		Human Values & Professional Ethics	100

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME B.Tech III Year	**26**	**22.96**

B. Course Relevance

The courses that comes under the category of Employability, Skill or Entrepreneurship development are shown in the table below.

III B.Tech

S.No	Course Title	Course Code	Relevance
1	Design of Machine Elements-I	19ME0311	Employability
2	Machine Tools	19ME0312	Employability
3	CAD/CAM	19ME0313	Employability
4	Thermal Engineering	19ME0314	Employability
5	Elements of Road Traffic Safety	19CE0129	Skill Development
6	Solar Photovoltaic Systems	19EE0239	Skill Development
7	Introduction to IOT	19EC0450	Skill Development
8	Software Development & Testing	19CS0545	Skill Development
9	Business Ethics	19HS0861	Skill Development
10	Machine Tools lab	19ME0315	Employability
11	Thermal Engineering- Lab	19ME0316	Employability
12	Computer Aided Modeling & Analysis Lab	19ME0317	Employability

13	English for Corporate Communications Skills Lab	19HS0859	Skill Development
14	Design of Machine Elements-II	19ME0318	Employability
15	Heat & Mass Transfer	19ME0319	Employability
16	Metrology & Measurements	19ME0320	Employability
17	Non-Conventional Energy Resources	19ME0321	Employability
18	Project Planning and Control	19CE0147	Skill Development
19	Neural Networks and Fuzzy Logic	19EE0231	Skill Development
20	MATLAB Programming	19EC0451	Skill Development
21	Introduction to Cyber Security	19CS0546	Skill Development
22	Strategic Management	19HS0862	Skill Development
23	Heat Transfer Lab	19ME0322	Skill Development
24	Metrology and Measurements Lab	19ME0323	Skill Development
25	Robot Programming Lab	19ME0324	Skill Development
26	Human Values & Professional Ethics	19HS0858	Skill Development

Modifications described above are carried out to the curriculum after discussions in the BoS by considering the feedback/suggestions from the stakeholders viz. students, alumni, faculty and employers.

Agenda: 3

Approval of course structure and syllabi for IV year B.Tech. under R18 Regulation in MECH w.e.f., 2021-2022.

Resolution: 3

After thorough discussion, course structure and syllabus was framed to make the students acquire required technical knowledge and skills. The BoS resolved to approve the course structure for IV year B.Tech. under R18 Regulation (given in **Annexure –III** respectively) applicable from the A.Y.2021-22.

A. Course & Syllabus Comparison

With reference to the R16 regulations, the new regulation (R18) syllabus for IV year has the following modifications which, are given in the below table.

IV B.Tech

S.No	R16 Regulation	R18 Regulation	Percentage of course content changed
1	Operations Research	Operations Research	20
2	Automobile Engineering	Automobile Engineering	0

3	Gas Dynamics and Jet Propulsion	Gas Dynamics and Jet Propulsion	100
4		Turbo Machines	
5	Refrigeration & Air Conditioning	Refrigeration & Air Conditioning	0
6	Mechatronics	Mechatronics & Robotics	50
7	Finite Element Methods	Finite Element Analysis	20
8	Quality Control and Reliability Engineering	Quality Control & Reliability Engineering	0
9	Advanced welding processes	Advanced Welding processes	15
10	Modern Manufacturing Methods	Modern Machining Methods	80
11	Power Plant Engineering	Power Plant Engineering	0
12		Project Planning and Control	100
13		Solar Photovoltaic Systems	100
14	Matlab Programming	MATLAB Programming	0
15		Software Development & Testing	100
16		Entrepreneurship Development	100
17	Computer Aided Design Lab	Computer Aided Analysis Lab	18
18		Robot Programming Lab	100
19		Project Phase-I	100
20	MOOC	MOOC-I	0
21		MOOC-II	100
22		Project Phase-II	100
23		Comprehensive Viva Voce	100

Consolidated Sheet

Course	Total courses	Percentage of syllabus changed
ME B.Tech IV Year	**23**	**52.30**

B. Course Relevance

The courses that comes under the category of Employability, Skill or Entrepreneurship development are shown in the table below.

IV B.Tech

S.No	Course Title	Course Code	Relevance
1	Operations Research	18ME0324	Employability
2	Automobile Engineering	18ME0325	Employability
3	Gas Dynamics and Jet Propulsion	18ME0334	Employability
4	Turbo Machines	18ME0335	Employability

5	Refrigeration & Air Conditioning	18ME0336	Employability
6	Mechatronics & Robotics	18ME0337	Employability
7	Finite Element Analysis	18ME0338	Employability
8	Quality Control & Reliability Engineering	18ME0339	Employability
9	Advanced Welding processes	18ME0340	Employability
10	Modern Machining Methods	18ME0341	Employability
11	Power Plant Engineering	18ME0342	Employability
12	Project Planning and Control	18CE0146	Skill Development
13	Solar Photovoltaic Systems	18EE0236	Skill Development
14	MATLAB Programming	18EC0450	Skill Development
15	Software Development & Testing	18CS0544	Skill Development
16	Entrepreneurship Development	18HS0815	Skill Development
17	Computer Aided Analysis Lab	18ME0326	Skill Development
18	Robot Programming Lab	18ME0328	Skill Development
19	Project Phase-I	18ME0329	Employability
20	Project Phase-II	18ME0333	Employability

Modifications described above are carried out to the curriculum after discussions in the BoS by considering the feedback/suggestions from the stakeholders viz. students, alumni, faculty and employers.

Agenda: 4

Approval of Panel of examiners and Question paper setters for various regulations under UG.

Resolution:4

Approved the panel of examiners prepared for valuation and panel of question paper setters (given in **Annexure–IV** respectively) to be submitted to the college Academic council for approval.

The above items were discussed, debated and the necessary approval was accorded by the BoS. The meeting was concluded with vote of thanks proposed by the Chairman-BoS.

Members Present

S. No.	Member Name	Designation/Organisation	Role of BoS	Signature
1.	Dr. S. Sunil Kumar Reddy	Professor &HOD-SIETK	Chairman	
2.	Dr. C.Sreedhar	Professor-SIETK	Member	
3.	Dr. F. Anand Raju	Professor-SIETK	Member	
4.	Dr. S. Suresh	Professor-SIETK	Member	
5.	Dr. K. Siva Kumar	Associate Professor-SIETK	Member	
6.	Dr. BVSSS Prasad	Professor, Dept of ME IIT, Madras, Chennai	Member	ABSENT
7.	Dr. G. Jaya Chandra Reddy	Professor & Head Yogi Vemana University Prodattur, Kadapa	Member	
8.	Dr. N. N.Kishore	Professor, Dept of ME IIT, Tirupathi, Chittor	Member	
9.	Mr. B. Madhu Prathap	Director, SIBAR Auto Parts,Industrial Estate, Renigunta, Chittoor Dist.	Member	
10.	Mr. R. Bhaskar Reddy	Asst.Professor, SPMVV, Tirupathi, Chittoor Dist.	Member	